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ABSTRACT

More attention should be paid to the building of career guidance and career curriculum programs with exit points that enable the student to seek employment at any time in an entry level position and/or to continue his education. Some of the best "career ladder" programs are the federally sponsored New Career programs. A number of the California junior colleges involved in this program are listed and the details of their programs discussed. The following quidelines are given for construction of a "career ladder" curriculum: (1) identify specific titles of jobs that are available; (2) apply a job analysis to the occupation: (3) organize the curriculum to reflect specific behavioral objectives; (4) develop evaluation criteria; and (5) develop the curriculum. Examples of programs with related employment possibilities are listed for: human services, municipal services, accounting, agronomy, aerospace drafting technology, agri-business, air transportation-commercial pilot, air transportation general, architectural technology, civil technology, environmental science technology, marine laboratory technician option, journalism, and industrial drafting. (CA)



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A "CAREER LADDER" APPROACH TO JUNIOR COLLEGE CURRICULUM

FOR

DR. B. LAMAR JOHNSON

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS OF EDUCATION 261-D

BY

HAROLD A. SCHRUPP

MAY 29, 1971

UNIVERSITY OF CALIF. LOS ANGELES

AUG 18 1971

CLEARINGHOUSE FOR JUNIOR COLLEGE INFORMATION



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INTRODUCTION

IT SEEMS QUITE CLEAR THAT IN THE THINKING OF MOST PEOPLE, "COLLEGE" HAS BECOME THE GATEWAY TO PROFESSIONAL AND MANAGERIAL STATUS. THIS SITUATION IS EXERTING A POWERFUL INFLUENCE ON THE ORIENTATION OF MILLIONS OF YOUNG PEOPLE APPROACHING COLLEGE AGE. THEIR PARENTS, TEACHERS, AND COUNSELORS, PLUS THE MASS MEDIA, ARE CONSTANTLY IMPRESSING UPON THEM THAT A COLLEGE EDUCATION IS INDISPENSIBLE FOR ACHIEVING A RESPECTABLE AND SATISFYING STATUS IN AMERICAN LIFE. SO EACH YEAR, HUNDREDS OF THOUSANDS OF STUDENTS ENTER COLLEGE UNDECIDED AS TO WHY THEY ARE THERE, BUT PUSHED ON BECAUSE OF THEIR CULTURE THAT MANDATES THAT THEY MUST GO. MANY BECOME DISENCHANTED, DO NOT DO WELL, AND LEAVE WITH-OUT GAINING ANY SKILLS WHICH COULD HELP THEM TO EARN A LIVING.

LIBERAL ARTS COLLEGES AND UNIVERSITIES SEEM TO PAY RELATIVELY LITTLE
ATTENTION TO THE OCCUPATIONAL OUTCOMES OF COLLEGE TRAINING. IN FACT, OFTEN
WE HAVE FOUND CRITICAL ATTACKS ON THE VOCATIONAL EMPHASIS OF MANY PROGRAMS,
A COMMENT WHICH IS ILLUSTRATED BY ROBERT M. HUTCHINS, WHO FELT, "THE OBJECT
OF THE EDUCATIONAL SYSTEM, TAKEN AS A WHOLE, IS NOT TO PRODUCE HANDS FOR
INDUSTRY OR TO TEACH THE YOUNG HOW TO MAKE A LIVING."

THE LIBERAL ARTS PROFESSOR, (IN A UNIVERSITY OR JUNIOR COLLEGE) IS NOT LIKELY TO BE ESPECIALLY CONCERNED WITH THE CAREER GOALS OF HIS UNDERGRADUATE STUDENTS UNLESS THEY SHOW SOME INCLINATION TO FOLLOW HIS PATH. RARELY DO LIBERAL ARTS COLLEGE FACULTY MEMBERS SEE ANY NEED TO DEVELOP FOR THEIR STUDENTS THE IMPORTANCE OF WHAT THEY TEACH FOR THE PERSONAL OR CAREER ASPIRATIONS OF THE STUDENTS.

COMMUNITY COLLEGES THEN, ARE ASSUMING THE MAJOR RESPONSIBILITY FOR TECHNICAL-VOCATIONAL EDUCATION, 2 AND ARE INCLUDING IN A SINGLE INSTITUTION, PREPARATION FOR EMPLOYMENT AND EDUCATION FOR TRANSFER. 3 AS MORE AND MORE



STUDENTS BEGIN THEIR EDUCATION IN A JUNIOR COLLEGE, (TWENTY-FIVE PERCENT NATIONALLY AND AS HIGH AS EIGHTY PERCENT IN CALIFORNIA) IT WOULD APPEAR THAT, AT LEAST IN CALIFORNIA, MUCH MORE ATTENTION MUST BE PAID TO THE BUILDING OF CAREER GUIDANCE AND CAREER CURRICULUM PROGRAMS IN THE JUNIOR COLLEGES THEMSELVES.

TRADITIONAL "TWO YEAR" PROGRAMS IN VOCATIONAL EDUCATION ARE BECOMING SOMEWHAT BLURRED, IN THAT SOME STUDENTS TRANSFER TO FOUR YEAR COLLEGES AND OTHERS LEAVE SCHOOL IN LESS THAN THE TWO YEARS TO SEEK WORK IN THEIR FIELD. PERHAPS WE MUST START THINKING OF THESE PROGRAMS NOT AS "TRANSFER" OR "TERMINAL," BUT RATHER AS CAREER LADDERS TO VOCATIONS WITH EXIT POINTS AT ANY TIME TO EMPLOYMENT OR TO FURTHER EDUCATION.

THIS PAPER WILL DEFINE A CAREER LADDER APPROACH TO CURRICULUM, AND IT WILL SHOW A RATIONALE FOR DEVELOPING SUCH AN APPROACH. IT WILL SHOW WHERE EFFORTS HAVE BEEN MADE TO INSTITUTE SUCH PLANS, AND SOME GUIDELINES ON HOW TO DEVELOP THEM. FINALLY, IT WILL, BY IMPLICATION, ENCOURAGE OTHERS TO TRY TO FIND NEW AREAS WHERE PROGRAMS CAN BE RE-DESIGNED OR RE-STRUCTURED TO GIVE STUDENTS SPECIFIC SKILLS IN ORDER TO SEEK EMPLOYMENT.





SURVEY OF LITERATURE

A RECENT PUBLICATION, ORIENTATION TO THE TWO YEAR COLLEGE, 5 DEFINES A CAREER LADDER AS FOLLOWS:

"THE COMPLETION OF THE OCCUPATIONAL PROGRAM PROVIDES AN IMMEDIATE, VALUABLE SKILL MUCH NEEDED BY SOCIETY, BUT SIMULTANEOUSLY ADVANCED WORK CAN BE BUILT UPON THE TECHNOLOGICAL SKILL GAINED FOR THOSE WHO ASPIRE TO HIGHER DEGREES. WHAT BETTER EDUCATIONAL APPROACH CAN THERE BE THAN ONE THAT ENSURES THAT AT EVERY POINT UP THE EDUCATIONAL CAREER LADDER, AN INDIVIDUAL WILL ACQUIRE SOCIALLY VALUABLE SKILLS AND THEN ENHANCE HIS SKILLS AT EACH SUCCEEDING RUNG ON THE LADDER. SUCH AN APPROACH LITERALLY MEANS THAT AFTER THE FIRST PERIOD OF TIME IN COLLEGE AND EVERY PERIOD THEREAFTER, THE STUDENT WILL HAVE EVER-IMPROVING TECHNOLOGICAL SKILLS TO OFFER SOCIETY. SOCIETY, IN TURN, RESPONDS WITH EVER-INCREASING ECONOMIC REWARDS IN RECOGNITION OF THE LEVEL OF EXPERTISE THE STUDENT HAS TO OFFER."

THE BOARDS OF TRUSTEES OF TWO DISTRICTS IN ORANGE COUNTY SEVERAL YEARS AGO FELT THAT, "OCCUPATIONAL PREPARATION IN THE JUNIOR COLLEGE SHOULD INCREASINGLY BE WELDED INTO AN ADAPTED LOWER DIVISION PROGRAM, SUITABLE FOR EMPLOYMENT UPON COMPLETION OF THE A.A. DEGREE OR LESS, AND ALSO SUITABLE, WITH A MINIMUM LOSS OF CREDIT, FOR CONTINUING THROUGH A BACCALAURATE DEGREE."

THE SAME BOARDS FELT TOO, THAT FOR JOB PROGRESS AND RE-TRAINING, "THE STUDENT POPULATION MUST INCREASINGLY BE REPRESENTED BY MATURE MEN AND WOMEN WITH CONSIDERABLE WORK HISTORY WHO MUST BE 'RE-CYCLED' THROUGH THE EDUCATIONAL PROCESS TO PRESERVE THEIR OPPORTUNITIES FOR MAKING OR ENHANCING THEIR CONTRIBUTIONS TO SOCIETY."

Some of the best career ladder programs can be found in the development of opportunities under federally-sponsored New Career programs. These programs are designed to provide education for the disadvantaged in order that they can gain entry level job classifications in public service for some branch of government. While the New Careers program provides many special services, (academic tutoring, job assistance, specialized classes, counseling,



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ETC.), IT IS THE CAREER LADDER APPROACH THAT IS OF MOST INTEREST HERE. A

NUMBER OF COMMUNITY COLLEGES HAVE BECOME INVOLVED IN THE NEW CAREERS APPROACH
IN VARYING DEGREES. AMONG THEM ARE:

PASADENA CITY COLLEGE, PASADENA
SAN DIEGO CITY COLLEGES, SAN DIEGO
COLLEGE OF THE DESERT, PALM DESERT
MT SAN JACINTO, GILMAN HOT SPRINGS
PALO VERDE, BLYTHE
RIVERSIDE CITY COLLEGE, RIVERSIDE
CONTRA COSTA COLLEGE, SAN PABLO

(DETAILS OF THESE PROGRAMS WILL BE DISCUSSED MORE FULLY LATER ON IN THE PAPER.)

THE SAN MATEO COLLEGES HAVE WHAT THEY CALL THE "INVERTED CURRICULUM" DESIGNED TO ATTRACT STUDENTS WHO MAY STAY IN COLLEGE ONLY FOR A SHORT TIME. FOR THE STUDENT WHO DOES NOT RESPOND FAVORABLY TO THE TRADITIONAL COLLEGE PROGRAM, THE INVERTED CURRICULUM OFFERS IMMEDIATE TECHNICAL AND BUSINESS TRAINING WITH THE OPPORTUNITY TO TRANSFER LATER ON OR TO TAKE ADVANTAGE OF OPTIONS ALONG THE WAY THAT PROVIDE EMPLOYMENT OPPORTUNITIES.



DR. NORMAN C. HARRIS OF THE UNIVERSITY OF MICHIGAN SUMMARIZED THE NEED FOR EDUCATION, PARTICULARLY TECHNICAL EDUCATION, IN A CHANGING JOB MARKET:

"PROFESSIONAL JOBS ... WILL CONSTITUTE 12% OF THE LABOR FORCE BY 1970. BUT THE REALLY SIGNIFICANT CHANGES HAVE OCCURRED AT THE LEVEL OF SEMI-PROFESSIONAL AND TECHNICAL,... WHERE THESE JOBS TOGETHER WILL ACCOUNT FOR OVER 50% OF THE LABOR FORCE IN 1970."

WHAT THIS MEANS IS THAT B.A. DEGREES WILL BE NEEDED FOR LESS THAN 20% OF OUR LABOR FORCE WHILE A.A. DEGREES WILL BE NEEDED OVER 50% OF THE JOBS.

To would seem that if we have in the junior colleges a majority of Beginning college students, the programs available for them and the guidance efforts expended, should reflect the occupational needs as discussed above. But in actuality, most junior college students enroll in transfer programs where two-thirds or more drop out or do not transfer. In fact, all American colleges, junior and senior, lose over one-half of their students before graduation, with junior colleges showing a much higher rate.

MANY STUDENTS WHO ENTER A JUNIOR COLLEGE DO NOT HAVE TENTATIVE OCCUPATIONAL PLANS AND, ACCORDING TO ERIKSON, "In general it is the inability to settle on an occupational identity which disturbs young people." Small wonder then that so many students do not find satisfying experiences in college and drop out.

SO IT WOULD SEEM THAT AS INCREASING NUMBERS OF STUDENTS ENTER JUNIOR COLLEGES, NEW DEVELOPMENTAL PROGRAMS MUST BE DEVELOPED TO OFFER MORE HOLDING POWER FOR STUDENTS, AND TO OFFER OCCUPATIONAL PROMISE FOR REALISTIC NEEDS OF THE WORK FORCE. PERHAPS THE IDEA OF A DEVELOPMENTAL CAREER LADDER IS ONE THAT MIGHT HELP.

STUDENTS TYPICALLY PERCEIVE ONLY TWO LEVELS OF SPECIALIZED PREPARATION, EITHER A COLLEGE DEGREE (B.4.) OR NO TRAINING AT ALL. 14 IF A STUDENT CAN



LEARN THAT THERE ARE SEVERAL KINDS AND LEVELS OF SPECIALIZED PREPARATION FOR OCCUPATIONS, HE MAY BE ABLE TO SEE MORE CLEARLY HOW MUCH MOBILITY THERE MAY BE AMONG RELATED JOBS. IF HIS FORMAL EDUCATION IS INTERRUPTED AT ANY LEVEL, HE CAN STILL FIND OCCUPATIONAL POSSIBILITIES THAT ARE RELATED TO HIS SPECIAL INTERESTS AND CAN LEAD TO MORE DESIRABLE GOALS WHEN HE HAS GAINED EXPERIENCE OR ADDED TO HIS TRAINING.

IF A STUDENT WHO BEGINS SCHOOL, LEARNS A FEW BASIC SKILLS AND THEN
DROPS OUT, CAN START IN AN ENTRY LEVEL TRAINEE JOB WHICH IS MEANINGFUL AND
PRODUCTIVE, HE MAY BE INTERESTED IN QUALIFYING HIMSELF FOR PROGRESSIVELY
HIGHER CLASSIFICATIONS. AS HE GAINS INCREASED EXPERIENCE, SATISFACTIONS, AND
PAY, HE MAY COMPLETE AN ACADEMIC PROGRAM AT THE COLLEGE AND PERHAPS
CONTINUE HIS EDUCATION AT A SENIOR COLLEGE.

VOCATIONAL-TECHNICAL TRAINING MAY BE COMING MORE FASHIONABLE IN

CALIFORNIA AS EXEMPLIFIED BY GOVERNOR RONALD REAGAN'S REMARKS IN AN ADDRESS
IN FEBRUARY, 1971, WHEN HE SAID, "EVERY HIGH SCHOOL STUDENT SHOULD HAVE A

SALABLE SKILL UPON GRADUATION."

WITH THE IMPLEMENTATION OF THE VEYSEY ACT

(WHICH ALLOWS HIGH SCHOOL STUDENTS TO ATTEND JUNIOR COLLEGES FOR A PORTION OF
THE DAY WITH BOTH INSTITUTIONS RECEIVING ATTENDANCE COUNTING FOR APPORTIONMENT
PURPOSES), BOTH HIGH SCHOOL AND JUNIOR COLLEGE STUDENTS CAN GAIN SALABLE

SKILLS IN A SHORT AMOUNT OF TIME USING A CAREER LADDER CURRICULUM.

DEVELOPING A CAREER LADDER APPROACH MEANS RE-DESIGNING OR RE-DEFINING

MOST OF THE TRADITIONAL TWO YEAR PROGRAMS CURRENTLY IN OPERATION, AND IT MAY

NOT BE OPERABLE IN SOME INSTANCES. HOWEVER, IT IS POSSIBLE AS SHOWN IN THE

EXHIBITS FROM THE ORANGE COAST COLLEGE CATALOG (SEE EXHIBIT B). WHAT IT

REQUIRES IS FIRST OF ALL TO IDENTIFY THE SPECIFIC JOB TITLES WHICH ARE

AVAILABLE AS A RESULT OF BEGINNING UNITS OF CLASS WORK AND THEN WHAT JOB TITLES

ARE AVAILABLE AFTER SUCCESSIVE SEMESTERS OF SCHOOL AND/OR JOB EXPERIENCE.



Next, one must apply some sort of Job analysis to the occupation, such as the Functional Job Analysis procedure as developed by Dr. Sidney A Fine of the W.E. Upjohn Institute 17 in determining:

WHAT GETS DONE

WHAT WORKERS DO

SOME PERFORMANCE CRITERIA

THEN ONE MUST ORGANIZE THE CURRICULUM TO REFLECT THE SPECIFIC BEHAVIORAL OBJECTIVES TO MEET THE TASKS NEEDED IN THE JOB ANALYSIS AND DEVELOP THE PROGRAM TO TEACH THOSE SKILLS.

AN OUTSTANDING JOB OF IDENTIFYING JOB TITLES FOR ENTRY LEVEL POSITIONS HAS BEEN DONE BY CONTRA COSTA COLLEGE (SEE EXHIBIT A) IN THEIR NEW CAREERS PROGRAM. THEY HAVE COOPERATED WITH VARIOUS GOVERNMENTAL AGENCIES IN EMPLOYING STUDENTS AS:

VOCATIONAL COACHES - HUMAN RESOURCE DEVELOPMENT

DEPUTY SHERIFF AIDES - CONTRA COSTA COUNTY

SOCIAL SERVICE AIDES - CONTRA COSTA COUNTY

MENTAL HEALTH AIDES - CONTRA COSTA COUNTY

PROBATION AIDES - CONTRA COSTA COUNTY

TEACHER AIDES - RICHMOND SCHOOL DISTRICT

COMMUNITY RELATIONS AIDES - COMMUNITY AGENCIES

LABORATORY MECHANIC-TECHNICIAN - CONTRA COSTA COLLEGE

Assistant Student Business Manager - Contra Costa College

LIBRARY TECHNICIAN - CONTRA COSTA COLLEGE

EACH OF THESE PROGRAMS WILL ALLOW A STUDENT WITH MINIMUM ACADEMIC SKILLS

TO BE EMPLOYABLE AT A TRAINED LEVEL WHILE HE CONTINUES HIS EDUCATION AND BE

ELIGIBLE TO UPGRADE HIS POSITION WHEN HE ACQUIRES ADDITIONAL SKILLS.



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THE RIVERSIDE COUNTY JUNIOR COLLIGES IN COOPERATION WITH THE UNIVERSITY OF CALIFORNIA - RIVERSIDE AND CALIFORNIA STATE - SAN BERNARDINO, HAVE DEVELOPED THROUGH OPERATION HEAD START, A PROGRAM IN TEACHER AIDE TRAINING THAT WILL ALLOW A STUDENT TO BECOME MORE QUALIFIED TO ASSUME A LEADERSHIP ROLE IN HEAD START OR TO WORK IN CHILD CARE CENTERS AND NURSERY SCHOOLS, OR AS SOCIAL CASE AIDES AND HEALTH AIDES.

ADDITIONAL DEVELOPMENT OF CAREER LADDERS CAN BE FOUND IN SOME PRELIMINARY WORK WITH THE STATE GOVERNMENT IN SACRAMENTO. 18 A NUMBER OF LADDERS HAVE BEEN DEVELOPED IN THE FOLLOWING AREAS:

BUILDING INSPECTOR

CIVIL ENGINEERS

LIBRARY TECHNICIANS

ACCOUNTING TECHNICIANS

RECREATION

COMMUNITY PLANNER

SUB-PROFESSIONAL POLICE

Some of the Allied Health fields, aware of the demand for trained workers, are developing these programs also. While many health fields require registration at the completion of a program, (Radiology, Inhalation Therapy, Nursing, etc.) some, such as nursing, recognize a ladder concept and are beginning to accept previous training. An example would be an agreement between Golden West College and the University of California - Irvine to develop a "Ladder-Lattice" concept of transferability in nursing. 19

ANOTHER PROGRAM IN ALLIED HEALTH WHICH SHOWS THE LADDER IDEA IS IN ELECTRO-DIAGNOSTIC TECHNICIAN TRAINING, 20 WHERE AFTER ONE YEAR SOME TASKS CAN BE PERFORMED (EKG, EEG) AND AFTER A SECOND YEAR, ADDITIONAL TASKS



(CARDIOGRAPH, ETC.) ARE ADDED. OTHER PROGRAMS, IN AS DIVERSE FIELDS AS JET MECHANICS AND MEDICAL ASSISTING, ARE DESIGNED TO PROVIDE EMPLOYMENT AFTER ONE YEAR, AND AFTER COMFLETING A SECOND YEAR, ALLOW THE STUDENT TO ADD RESPONSIBILITIES ON HIS JOB. 21



SUMMARY

This paper has presented a different view of curriculum construction in junior colleges. This view has been to design a curriculum to provide a student with skills which would enable him to seek employment at any time in an entry level position in his interest area. Should he re-enter school again, we can gain new skills to allow him to qualify for a higher position. Eventually, should he decide to, he can enter a four year institution to major in his field of competency and gain a higher degree.

A NUMBER OF PROGRAMS WERE DISCUSSED WHICH UTILIZED A CAREER LADDER

APPROACH TO CURRICULUM AND SOME GUIDELINES TO THE CONSTRUCTION OF CURRICULUM

WERE PRESENTED:

- 1. JOB TITLE IDENTIFICATION
- 2. JOB ANALYSIS (SKILLS NEEDED)
- 3. BEHAVIORAL OBJECTIVES TO GAIN THOSE SKILLS
- 4. EVALUATION CRITERIA
- 5. CURRICULUM DEVELOPMENT

PERHAPS AS SCHOOLS RE-ORGANIZE THEIR CURRICULUM OFFERINGS, SUCH AN APPROACH AS PRESENTED HERE MIGHT BE CONSIDERED. AS A RESULT OF THIS PLANNING, SOME STUDENTS WHO OTHERWISE WOULD NOT HAVE ATTENDED COLLEGE, MIGHT ENROLL FOR A PERIOD OF TIME, LEAVE, AND FIND EMPLOYMENT ROUTES OPEN TO THEM. THIS FACTOR COULD BE AN INCENTIVE TO CONTINUE SCHOOL AND BE QUALIFIED FOR HIGHER LEVEL WORK, MAKING MORE SATISFIED CITIZENS.

AS MORE STUDENTS ENTER JUNIOR COLLEGES, AND DROP OUT OR GRADUATE, MUCH MORE EFFORT MUST BE MADE TO PROVIDE THE INFORMATION NECESSARY FOR THEM TO MAKE REALISTIC DECISIONS ABOUT OCCUPATIONS.



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EXHIBIT A

PUBLIC SERVICE OCCUPATIONS PROGRAMS

HUMAN SERVICES

•		
PROGRAM		RELATED JOBS
EDUCATION	TEACHER ASSISTANT	Instructional Aide; Teacher Aide;
		TEACHER ASSISTANT; SPECIAL EDUCATION
		Aide; Nursery School Aide.
	LIBRARY TECHNICIAN	CLERK (INTERMEDIATE, SENIOR);
		LIBRARY TECHNICAL ASSISTANT
	INSTRUCTIONAL MEDIA	
	SPECIALIST	IN SCHOOLS, PRIVATE INDUSTRY, AND
		THE ARMED SERVICES
SOCIAL	Social Services	GROUP COUNSELOR; COUNSELOR ASSISTANT;
		Social Service Assistant 1 - 11;
		COMMUNITY SERVICE AIDE; CORRECTIONAL
		PROGRAM ASSISTANT; ELIGIBILITY WORKER;
		INSTITUTIONAL GROUP WORKER, EMPLOYMENT
		COMMUNITY WORKER.



MUNICIPAL SERVICES

PROGRAM

RELATED JOBS

URBAN DEVELOPMENT

COMMUNITY PLANNING AND

REDEVELOPMENT:

CITY PLANNING TECHNICIAN

PUBLIC TRANSPORTATION SYSTEM

TRAVEL SERVICES:

STEWARDESS AND

WITH ALL TRAVEL AGENCIES (AIRLINE,

STEWARD BUS, SHIP)

PROFESSIONAL TRAVEL TRAVEL AGENT (PRIVATE BUSINESS OR

GUIDE TRAVEL AGENT)

AIRPORT OPERATION ASSISTANT AIRPORT MANAGER, BUSINESS

MANAGER, OPERATIONS ASSISTANT

ADMINISTRATIVE SERVICES

PUBLIC SERVICE SUPERVISORY AND STAFF POSITIONS IN

MANAGEMENT FEDERAL AND STATE, COUNTY OR CITY

GOVERNMENTAL AGENCIES.

PARK AND RECREATION

RECREATION TECHNICIAN FIELD OR GROUP RECREATION WORKER;

CAMP COUNSELOR; CORRECTIONAL

PROGRAM ASSISTANT

OTHER SERVICES

COMMUNICATION TECHNICIAN BROADCAST (TV) PROGRAMMER; RADIO

AND TV ANNOUNCER/DISPATCHER



MARAC	ΛE	DDOODAM	ACCOUNTING
MAME	U۲	PROGRAM	ACCOUNTING

FIRST SEMESTER	<u>UNITS</u>	EMPLOYMENT POSSIBILITIES
ACCOUNTING 1A-B Principles of Accounting BUSINESS 1 Introduction to Business	ι _ι 3	Income Tax Pre paration (assistant I) B ank Teller
English 1A Psychology 1A Mathematics 160 or Business 50 Physical Education	3 3 3 162	

SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
ACCOUNTING 2A-B Principles of Accounting SECRETARIAL SCIENCE 1 or 50 Beginning Typew	4 riting 3-1	Income Tax Preparation (assistant II) Accounting Clerk (service
Business Information Systems 1 English of Speech or Business 77 Business 72 A-B-c Physical Education	3 3 3 16	industry) Cashier

THIRD SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
ACCOUNTING 61 Cost Accounting	3	Accounting Clerk
BUSINESS 11 Business Law	3	(manufacturing industry)
Accounting 62	3	
Secretarial Science 2	3	
Health Education 2	2	
Physical Education	$\frac{\frac{1}{2}}{14\frac{1}{2}}$	

FOURTH SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
ACCOUNTING 52 Payroll and Income Tax A	Accounting 3	Accounting Clerk (manufacturing industry,
Secretarial Science 81 A-B-C-D	1-4	including payroll)
Secretarial Science 74	3	Income Tax Preparation
American Studies 1	կ	
Economics 5	3 ຸ	
Physical Education	<u>.</u>	
	14 2-17 2	

Students must meet General Education requirements and additional major requirements.

Salifornia State Colleges have an accounting option within their Business Administration ams.

MENT POSSIBILITIES
nd operator or
MENT POSSIBILITIES
eathologist Aide int Fieldman (food processing inspection Aide se operation
nt huyers for food chains esale and retail) in trainee illizer, feed, spray and
ticide)
MENT POSSIBILITIES
or the above areas plus responsibility and ption fertilizer, feed, spray, eticide)
·
MENT POSSIBILITIES
echanic Mechanic quipment Mechanic an (fertilizer, seed, insect-
Ltural Commissioner trainee onty) weights, measurements, eticide, rodents Ltural Extension service
ot Lt

Students must meet General Education requirements and additional major requirements.

California State Colleges - San Luis Obispo, Pomona, Fresno, Chico

sity of California - Davis, Riverside (electives only)

ERIC ate Oregon State Humboldt

ERIC ate

Humboldt State

NAME OF PROGRAM AEROSPACE DRAFTING TECHNOLOGY

FIRST SEMESTER	<u>UNITS</u>	EMPLOYMENT POSSIBILITIES
DRAFTING 31 - Basic Drafting Practices Mathematics 040 Psychology 1A English 1A Elective Physical Education	3 3 3 2 1/2 15 1/2	Draftsman trainee - (part time) some skills in specific tasks: making changes, tracing, lettering, small detail drawing.
SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
DRAFTING 32 - Introduction to Drafting Special ties INDUSTRIAL ARTS 33 - Machine Shop Practice Mathematics 045 English 2 Health Education 1 Physical Education	s 3 3 3 2 1/2 15 1/2	Beginning Draftsman - More responsible tasks: making small working drawings from engineering sketches, simple pictorial drawings, free hand sketches involving math skills.
THIRD SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
AEROSPACE DRAFTING 33 - Aerospace Drafting METAL TRADES 61 - Elementary Metallurgy American Studies 1 Elective Physical Education	5 4 2 1/2 15 1/2	Beginning Draftsman ~ makes drawings in some special- ties: castings, forgings, sheetmetal parts, weldments, some tool and machine design More responsibility and knowledge of metallurgy.
FOURTH SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
AEROSPACE DRAFTING 34 - Aerospace Drafting METAL TRADES 62 - Manufacturing Processes Elective Work Experience Physical Education	5 4 2 3 1/2 14 1/2	Junior grade draftsman with design skills. Makes medium to large assembly drawings. Progress to higher levels in a minimum of time.

TRANSFER TO FOUR-YEAR INSTITUTIONS

Students must meet General Education requirements and additional major requirements. California State College - Long Beach (Industrial Technology)
California State College - San Luis Obispo (Engineering Design)



NAME OF PROGRAM AGRI-BUSINESS		
FIRST SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
AGRICULTURE 2- Agriculture Measurement AGRICULTURE 61- Agriculture Conference AGRICULTURE electives BUSINESS 1- Introduction to Business	2 1 3 3	Sales Assistant at nursery Surveryor's Aide Assistant institutional gardener
Secretarial Science 1 or 50 Fsychology 1A Physical Education	3-1. 3	
	152-13	
SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
AGRICULTURE 62- Agriculture Conference AGRICULTURE electives BUSINESS 11-Business Law English 1A or 2 Physical Education	2 6 3 3 14 2	Salesman trainee (fertilizer, feed, spray and insecticide) Sales, Nursery Landscape Gardener (trainee) Plant sprayer Mosquito abatement Plant pathologist Aide
THIRD SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
AGRICULTURE electives EUSINESS 21- Salesmanship AMERICAN STUDIES 1-Instructions English or Speech Agriculture 81A-D Physical Education	3 4 3 1-4 ½	Sales (fertilizer, feed, spray, insecticide) Landscape Gardener Sales and Service farm and industrial machinery Sales and Service (drive in dairy)
FOURTH SEMESTER	15½-18½ UNITS	EMPLOYMENT POSSIBILITIES
AGRICULTURE electives BUSINESS 22- Marketing and Distribution	6	Sales and Service (implement, nursery, chemicals, equipment)
Health Education 1	2 1-4	Civil Service State (various jobs)

Students must meet General Education requirements and additional major requirements.

Colornia State Colleges- San Luis Obispo, Fomona, Fresno, Chico
ERICaty of California - Davis, Riverside (electives only)

ate Oregon State Arizona State, Tempe

Agriculture 82A-D

Physical Education

Electives

152-182

(various jobs)

State

Local

NAME OF PROGRAM AIR TRANSPORTATION-COMMERCIAL PILOT

FIRST SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
AERO 50- Aviation Ground School AIR TRANSPORTATION 51A- Basic Transportation AIR TRANSPORTATION 41- Basic Flight	3 3 1	None until he gets commer- cial license
English 1A Psychology 1A Electives Physical Education	3 3 3 ₹	
•	16 ½	
SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
AIR TRANSPORTATION 42- Intermediate Flight AERO 52- Aviation - Navigation	1 3	With license: executive flying, corporate pilot,
American Studies 1 English or Speech	4 3 2	charter pidot, aerial photography, air freight, agricultural application,
Electives Physical Education	1/2	crop and game surveying, pipe and power line patrol, and flight instruction.
	13 }	
THIRD SEMESTER	LINI TS	FMPLOYMENT POSSIBILITIES
THIRD SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
THIRD SEMESTER AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Meteorology	UNI TS 1 3	With commercial license: executive flying, corp-
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Neteorology Business Information Systems 1	1 3	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Meteorology Business Information Systems 1 Geography 2	1 3	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Neteorology Business Information Systems 1 Geography 2 Accounting 51 Electives	1 3 3 3 3	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game surveying, pipe and power
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Neteorology Business Information Systems 1 Geography 2 Accounting 51	1 3	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Neteorology Business Information Systems 1 Geography 2 Accounting 51 Electives	1 3 3 3 3	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game surveying, pipe and power line patrol, and flight
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Neteorology Business Information Systems 1 Geography 2 Accounting 51 Electives	1 3 3 3 3 3	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game surveying, pipe and power line patrol, and flight
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Neteorology Business Information Systems 1 Geography 2 Accounting 51 Electives Physical Education FOURTH SEMESTER AIR TRANSPORTATION 44- Intermediate Flight	1 3 3 3 3 3 3 2 16 ½	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game surveying, pipe and power line patrol, and flight instruction. EMPLOYMENT POSSIBILITIES With commercial license:
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Meteorology Business Information Systems 1 Geography 2 Accounting 51 Electives Physical Education FOURTH SEMESTER	1 3 3 3 3 3 3 2 16 ½	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game surveying, pipe and power line patrol, and flight instruction. EMPLOYMENT POSSIBILITIES With commercial license: executive flying, corp-
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Neteorology Business Information Systems 1 Geography 2 Accounting 51 Electives Physical Education FOURTH SEMESTER AIR TRANSPORTATION 44- Intermediate Flight	1 3 3 3 3 3 3 2 16 ½	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game surveying, pipe and power line patrol, and flight instruction. EMPLOYMENT POSSIBILITIES With commercial license:
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Meteorology Business Information Systems 1 Geography 2 Accounting 51 Electives Physical Education FOURTH SEMESTER AIR TRANSPORTATION 44- Intermediate Flight AERO 51- Aviation Ground School- Advanced Secretarial Science 1 or 50 Physical Science 100, 110	1 3 3 3 3 3 3 2 16 ½ UNITS 1 3	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game surveying, pipe and power line patrol, and flight instruction. EMPLOYMENT POSSIBILITIES With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Meteorology Business Information Systems 1 Geography 2 Accounting 51 Electives Physical Education FOURTH SEMESTER AIR TRANSPORTATION 44- Intermediate Flight AERO 51- Aviation Ground School- Advanced Secretarial Science 1 or 50 Physical Science 100, 110 Electives	1 3 3 3 3 3 16 ½ UNITS 1 3 3-1 4 6	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game surveying, pipe and power line patrol, and flight instruction. EMPLOYMENT POSSIBILITIES With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game
AIR TRANSPORTATION 43- Intermediate Flight AERO 53- Aviation-Meteorology Business Information Systems 1 Geography 2 Accounting 51 Electives Physical Education FOURTH SEMESTER AIR TRANSPORTATION 44- Intermediate Flight AERO 51- Aviation Ground School- Advanced Secretarial Science 1 or 50 Physical Science 100, 110	1 3 3 3 3 3 3 2 16 ½ UNITS 1 3	With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural application, crop and game surveying, pipe and power line patrol, and flight instruction. EMPLOYMENT POSSIBILITIES With commercial license: executive flying, corporate pilot, charter pilot, aerial photography, air freight, agricultural

TRANSFER TO FOUR-YEAR INSTITUTIONS

Students must meet General Education requirements and additional major requirements.

California State College - San Jose (Aeronautical Maintenance & Aeronautical Operations) University of Illinois a State Ohio State University ERICtate - Parsons (Iowa)
Riddle (Florida) University of Furdue St. Louis University

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FIRST SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
AIR TRANSPORTATION 51A- Basic Transportation English 1A Psychology 1A Electives Physical Education	3 3 6 ½ 15 ½	Clerical Trainee: Reservations Sales (Front counter) Baggage handler Dispatch clerk
SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
AIR TRANSPORTATION 51B- Passenger Relations	3	Clerical Trainee:
American Studies 1 English or Speech Health Education 1 Electives Physical Education	4 3 2 3 ½	Reservations Dales (Front counter) Baggage handler Dispatch clerk Shift supervisor with six (6) months experience.
THIRD SEMESTER	1141, 70	EMPLOYMENT POSSIBILITIES
errene was read tell	UNITS	THE TO IMENT FOR TOTAL LES
AIR TRANSPORTATION 52A- Air Regulations and Re Agencies BUSINESS INFORMATION SYSTEMS 1- Introduction to Business Information	lated 3	Higher level of pay, More responsibilities within the four (4) areas above
AIR TRANSPORTATION 52A- Air Regulations and Re Agencies BUSINESS INFORMATION SYSTEMS 1- Introduction to	lated 3 o mati.on3 3 3 3	Higher level of pay, More responsibilities within
AIR TRANSPORTATION 52A- Air Regulations and Real Agencies BUSINESS INFORMATION SYSTEMS 1- Introduction to Business Information Systems 1- Introduction to Business Information Statement	lated 3 o mation3	Higher level of pay, More responsibilities within
AIR TRANSPORTATION 52A- Air Regulations and Real Agencies BUSINESS INFORMATION SYSTEMS 1- Introduction to Business Information Systems 1- Introduction Systems 1- Introductio	lated	Higher level of pay, More responsibilities within the four (4) areas above

Students must meet General Education requirements and additional major requirements.

California State College - San Jose (Aeronautical Maintenance & Aeronautical Operations)

I State
University of Illinois
University
University of Purdue
St. Louis University

Aiddle (Florida)

20

NAME OF PROGRAM ARCHI	TECTURAL TECHNOLOGY	
FIRST SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
ARCHITECTURAL TECHNOLOGY 21A-	Architectural Draft+ ing 4	Office boy
ARCHITECTURAL TECHNOLOGY 22A-		
ARCHITECTURAL TECHNOLOGY 24-		
	ion 2	
English 1A Psychology 1A	$\frac{3}{3}$ $14\frac{1}{2}$	
Physical Education	1 2	
SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
ARCHITECTURAL TECHNOLOGY 21B-	Architectural Draft-	Draftsman (simple chores)
ARCHITECTURAL TECHNOLOGY 22B-		·
Fraliah or Creek		
English or Speech Mathematics 040	3 3 3	•
Elective	3	;
Physical Education	Ż	•
	15 ±	
THIRD SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
ARCHITECTURAL TECHNOLOGY 23A-	Architectural Render- ing 2	Draftsman
ARCHITECTURAL TECHNOLOGY 31A-	6	
	•	
Architectural Technology 81- American Studies 1	3 4	
Elective	4 3	
Physical Education	ž	
	16 🕏	
FOURTH SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
ARCHITECTURAL TECHNOLOGY 31B-	Architectural Draft- ing 4	Draftsman
ARCHITECTURAL TECHNOLOGY 23B-		
Architectural Technology 82-	3 2	
Health Education 1 Electives	3	
Physical Education	ž	•
	15 夏	
	RANSEER TO FOUR-YEAR INSTITUTION	Sic

TRANSFER TO FOUR-YEAR INSTITUTIONS
Students must meet General Education requirements and additional major requirements. California State College - San Luis Obispo prnia State College - Fomona ERIC na State College - Tempe

NAME OF PROGRAM CIVIL TECHNOLOGY		
FIRST SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
CIVIL TECHNOLOGY 55A-Surveying and Measurements CIVIL TECHNOLOGY 51- Materials Testing CIVIL TECHNOLOGY 52- Civil Drafting MATHEMATICS 045 or 010, 020- Intermediate Technical Mathematics Elementary Algebra Plane Geometry	3 2 •	Engineering Aide I (Govern- ment) Draftsman Surveying party (Rodman, chain man) Testing (soil) Calculating
Psychology 1A English or Speech Physical Education	3 3 <u>17</u> 3	
SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
CIVIL TECHNOLOGY 54- Statics and Dynamics CIVIL TECHNOLOGY 55B- Surveying and Measurement GEOLOGY 2- General Geology, Physical	4 3 3	Engineering Aide II (upon passing examination) County roads of flood control, city or construction firms
Mathematics 140 English or Speech Physical Education	3 3 2	More responsibilities in above jobs
	16 ½	
THIRD SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
THIRD SEMESTER CIVIL TECHNOLOGY ELECTIVE: Industrial Arts or a eering		EMPLOYMENT POSSIBILITIES
CIVIL TECHNOLOGY ELECTIVE: Industrial Arts or E	ingin- 3 3 4 4 4	EMPLOYMENT POSSIBILITIES
CIVIL TECHNOLOGY ELECTIVE: Industrial Arts or E earing Mathematics 145 Physics 47 American Studies 1	3 3 4 4	EMPLOYMENT POSSIBILITIES
CIVIL TECHNOLOGY ELECTIVE: Industrial Arts or E earing Mathematics 145 Physics 47 American Studies 1	ingin- 3 3 4 4 4	EMPLOYMENT POSSIBILITIES EMPLOYMENT POSSIBILITIES
CIVIL TECHNOLOGY ELECTIVE: Industrial Arts or a eering Mathematics 145 Physics 47 American Studies 1 Physical Education	ingin- 3 3 4 4 4 2	EMPLOYMENT POSSIBILITIES Engineering Aide II (state & county) Highways, Bridges,
CIVIL TECHNOLOGY ELECTIVE: Industrial Arts or E eering Mathematics 145 Physics 47 American Studies 1 Physical Education FOURTH SEMESTER CIVIL TECHNOLOGY ELECTIVE— Industrial Arts or	3 3 4 4 4 2 14 ½	EMPLOYMENT POSSIBILITIES Engineering Aide II (state &

Students must meet General Education requirements and additional major requirements.

California State College - Long Beach (Industrial Technology) (Construction)

ornia State College - Fresno Civil Technology (Photogrametry surveying and mapping)

ERICan Arizona (Flagstaff) Civil Technology

22

NAME OF PROGRAM ENVIRONMENTAL SCIENCE TECHNOLOGY

FIRST SEMESTER ENVIRONMENTAL SCIENCE 100- Environmental Inve BIOLOGY 100- Biology MARINE SCIENCE 100- The Marine Sciences Mathematics 040 Psychology 1A Physical Education	UNITS entory 3 3 3 3 15	At the present time, job titles are being developed. With the Environmental Sciences, however most technical jobs require the completion of two years.
. SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
ENVIRONMENTAL SCIENCE 110- Resources and Man ENVIRONMENTAL SCIENCE 120- Conservation and M ment of Aquatic Re ENGLISH 2- Technical Report Writing American Studies 1 Mathematics 045 Physical Education		
	16 /2	
THIRD SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
ELECTRONIC TECHNOLOGY 70- Electronic Construct Techniques INDUSTRIAL ARTS 34- Electronics BUSINESS INFORMATION SYSTEMS 6- Computer Prog Techniques	2 3	
Environmental Science 140 English or Speech Physical Education	4 3 ½ 16½	
FOURTH SEMESTER	UNITS	EMPLOYMENT POSS BILITIES
ENVIRONMENTAL SCIENCE 130- Soils ENVIRONMENTAL SCIENCE 210- Oceanographic Tech ENVIRONMENTAL SCIENCE 220- Agricultural Chemi		Air pollution technician Water quality technician Sewage plant technician Soil quality technician
Biology 110 Billogy 111 Electives Physical Education	1 1 6 ½ 	

TRANSFER TO FOUR-YEAR INSTITUTIONS

Students must meet General Education requirements and additional major requirements.

There are no programs in the colleges that are directly applicable to Environmental Science as
California State College - numboldt does have several programs that are closely related.

NAME OF PROGRAM MARINE LABORATORY TECHNICIAN OPTION

FIRST SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
MARINE SCIENCE 100- The Marine Sciences MATHEMATICS 040 (or 010,020)- Elementary Mathematics INDUSTRIAL ARTS 34- Electronics ELECTRONICS TECHNOLOGY 70- Electronic Con Techniques	s 3 3	At the present time job titles are being developed within, the Marine Sciences, however most technical jobs, require the completion of two years.
English 1A Psychology 1A Physical Education 27A-D (Lifesaving)	3 3 17 \$	
SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
MARINE SCIENCE 110- Ocean Resources ENVIRONMENTAL SCIENCE 100- Environmental MATHEMATICS 045 (or 110,120)- Intermediat Mathematics INDUSTRIAL AETS 32- Drafting American Studies 1 Physical Education 29 A-D (Skingiving)	te Cochmical	
THIRD SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
MARINE SCIENCE 200- Marine Biology ENVIRONMENTAL SCIENCE 140- Chemistry for PHYSICS 47-(or 2A)- Technical Physics ENGLISH 2- Technical Report Writing	Technicians4 4 3	
Physical Education 30A-D (Scuba Diving)	2	
	16	

FOURTH SEMEST	ER	INITS	EMPLOYMENT POSSIBILITIES
Physical Science Option	: Biology Science Option	:	Marine technician Warine laboratory technician
MARINE SCIENCE 210 PHYSICS 48 (or 2B) COMPUTER SCIENCE 100 INDUSTRIAL ARTS 33	4 LARINE SCIENCE 210 4 PHYSICS 48 (or 2 B) 1 COLPUTER SCIENCE 100 3 ENVIRONMENTAL SCIENCE	4 4 1 120 3	Marine electronics technician
Geology 2 Health Education 1 Physical Education	3 Electives 2 Health Education 1 $\frac{\frac{1}{2}}{17\frac{1}{2}}$ Physical Education	$ \begin{array}{c} 1-3 \\ 2 \\ \hline 15\frac{1}{2}-17\frac{1}{2} \end{array} $	·

TRANSFER TO FOUR-YEAR INSTITUTIONS

Students must meet General Education requirements and additional major requirements.

Transfer difficult unless student has substituted "theoretical" for "technical" chemistry, math and physics courses. Marine Ocience courses not transferrable except kS 100 and 200 which will fer to California State College - Fullerton (at junior level).

MAME	ΛF	PROGRAM	JOURNALISM
MAINE	ŲΓ	PROGRAM	O COMMETTOE

	and the second s	
FIRST SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
JOURNALISM 20A- Newswriting and Reporting PHOTOGRAPHY 20- Basic Photography	3 2	Copy Messenger (part-time)
Secretarial Science 1 or 50 English 1A Psychology 14	3 - 1 3 3	
Health Education 1 Physical Education	3 3 2 2	
	16 ½	
SECOND SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
JOURNALISM 20B- Advanced Newswriting and Repo	orting 3	Editorial Department Assistant (part-time)
Business Management and Retailing English or Speech	3 3	•
Physical Science 100, 110 Elective	4 3	
Physical Education	2	
	16 ½	
TUIDO CEMECTED	(iki) TS	EMPLOYMENT POSSIBILITIES
THIRD SEMESTER JOURNALISM 21A- Copyreading	<u>UNITS</u> 3	EMPLOYMENT POSSIBILITIES
JOURNALISM 22A- Publication Writing	2	
English 2 American Studies 1	3 4	
Biology 2 Physical Education	4	
rnystearducation		
	16 ½	
FOURTH SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
JOURNALISM 21B- Makeup and Editing JOURNALISM 22B- Publication Writing	3 2	Reporter Copy Writing (public relat- ions work)
English 16 History AA or AB	्र इ	Copy reader (must get B.A. or extensive
History 4A or 4B Elective	3	experience before further
Physical Education	2	advancement)
	15	

Students must meet General Education requirements and additional major requirements.

The following institutions are accredited by the Association for Education in Journalism:

University of Southern California

Journalism Majors are available at:

C-lig--nia State College - San Fernando Valley

California State College - Long Beach

(FRICINIA State College - San Jose

California State College - Fullerton (Communications)

NAME OF PROGRAM INDUSTRIAL DRAFTING		
FIRST SEMESTER	UN! TS	EMPLOYMENT POSSIBILITIES
DRAFTING 31- Basic Drafting Practices	4	Draftsman trainee- (part time) some skills in
Mathematics 040 Psychology 1A English 1A Elective Physical Education	3 3 3 2 2 15 <u>\$</u>	specific tasks: making changes, training, letter-ing, small detail drawing.
SECOND SEMESTER	UNIT'S	EMPLOYMENT POSSIBILITIES
SECOND SEMESTER	<u>UNITS</u>	EMPEOTMENT POSSIBILITIES
INDUSTRIAL DRAFTING 32- Introduction to Draftin Specialties INDUSTRIAL ARTS 33- Machine Shop Practices	ng 4 3	Beginning Draftsman- More responsible tasks: making small working
Lathematics 045- English 2 Health Education 1	3 3 2 à	drawing from engineering sketches, simple pictorial drawings, free hand sketches involving math skills.
Physical Education	15 ½	
THIRD SEMESTER	UNI TS	EMPLOYMENT POSSIBILITIES
INDUSTRIAL DRAFTING 33- Mechnical Design METAL TRADES 61- Elementary Metallurgy American Studies 1 Elective Physical Education	5 4 2 2 2 2 2 2	Beginning Draftsman- makes drawings in some special- ities- aerospace, tool design, machine design, structures. More respons- ibility and knowledge of metallurgy.
FOURTH SEMESTER	UNITS	EMPLOYMENT POSSIBILITIES
INDUSTRIAL DRAFTING 34- Mechnical Design Technology EETAL TRADES 62- Manufacturing Processes Elective Physical Education Work Experience (optional)		Junior grade draftsman with some design skills. Makes meduim to large assembly drawings in the above specialty areas. Progress to higher levels in a minimum of time.

Students must meet General Education requirements and additional major requirements. California State College - Long Beach (Industrial technology)

Chief-rnia State College - San Luis Obispo (Engineering design)



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- 3. IBID., P. 39.
- 4. U.S. Advanced Statistics for Opening Fall Enrollment: 1969 (Washington, D.C.: U.S. Government Printing Office, U.S. Office of Education, 1969).
- 5. RICHARD HASTROP, ORIENTATION TO THE TWO YEAR COLLEGE (HOMEWOOD, ILLINOIS: LEARNING SYSTEMS COMPANY, 1970) P. 96.
- 6. Boards of Trustees of North Orange County and Orange Coast College Districts, "Occupational Curricular Needs," 1966 (p. 91).
- 7. IBID., P. 81.
- 8. Leslie R. White, <u>New Careers in Local Government</u> (Berkeley, California: Institute for Local Self-Government, 1969).
- 9. Some Who Dared: Community College Involvement with Public Service Aspects
 OF THE URBAN PROBLEM IN CALIFORNIA (BERKELEY, CALIFORNIA: THE INSTITUTE
 FOR LOCAL SELF-GOVERNMENT, 1969) Pp. 13-14.
- 10. San Mateo Community College District, "Vocational-Technical Education for the 1970's" (San Mateo: 1969-70) p. 65.
- 11. Norman C. Harris, "The Community College and Middle Manpower," in Technical Vocational Education and the Community College. Proceedings of the Thirteenth Annual Legislative Work Conference of the Southern Regional Education Board, (Atlanta: Southern Regional Education Board, 1964) p. 23.
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- 12-A. John Summerskill, "Dropouts from College" in The American College, Nevitt Sanford (Ed.) (New York: Harper and Brothers, 1957) p. 631.
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- 16. CALIFORNIA EDUCATION CODE, SECTIONS 6401 AND 25503.5 (VEYSEY ACT), AMENDMENTS OF 1963 AND 1967.



- 17. S.A. FINE AND C.A. HEINZ, "THE FUNCTIONAL OCCUPATIONAL CLASSIFICATION STRUCTURE," PERSONNEL & GUIDANCE JOURNAL, VOL. 37, No. 2 (OCTOBER, 1958) PP. 180-92.
- 18. WHITE, OP.CIT.
- 19. COAST COMMUNITY COLLEGE BOARD OF TRUSTEES (MINUTES OF REGULAR MEETING, APRIL 21, 1971).
- 20. ORANGE COAST COLLEGE CATALOG, 1971-72, COSTA MESA, CALIFORNIA (TO BE PUBLISHED MAY, 1971).
- 21. IBID.



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 John Wiley and Sons, 1962.
- 3. Boards of Trustees of North Orange County and Orange Coast College Districts, "Occupational Curricular Needs," . 1966.
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- 15. Super, Donald E., The Psychology of Careers, New York: Harper and Brothers, 1957.



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